SAF-RC-001 Industrial Hygiene Sampling FINAL DATA

NO DISTRIBUTION REQUIRED

COMMENTS:

SDG <u>(051-4736-01)</u> SAF-RC-001

Rad only X Chem only Rad & Chem

X Complete Partial

300 Area 334A Bldg







Cover Page

Report Identification Number: 05I-4736-01

Subcontract Number: 0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number: **DCHM**

SAF#: RC-001 / R33400 J451

Payroll#: 72570



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Sample Information

Sample Date	Customer Sample Number	Laboratory Sample Number	Method	Analytical Batch Identification	Sample Matrix
14 Nov 2005	J10JN9	05I44451	NMAM_7300M	G05BJ011	G WIPE
14 Nov 2005	J10JN8	05144452	NMAM 7300M	G05BJ011	G WIPE
14 Nov 2005	J10JN7	05I44453	NMAM 7300M	G05BJ011	G WIPE
14 Nov 2005	J10JN6	05I44454	NMAM 7300M	G05BJ011	G WIPE

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Name: Lisa M. Reid Title: Chemist

Date: November 18, 2005





Case Narrative Page

Report Identification Number: 05I-4736-01

Subcontract Number: 0000X-BO-G0058-B-Mod#4

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General Set Information: There are 4 samples in set 05I-4736-01 and 4 samples in set 05I-4737-01 for a total of 8 samples. The samples were analyzed for cadmium and beryllium on Ghost Wipe. No problems were encountered with the receipt of these samples and no contact with the CTR was required.

Method Summary: Samples were transferred to 50 ml centrifuge tubes and digested in the presence of 5 mL of nitric acid and 5 mL of ASTM Type II water. Samples were digested in a hot block set at 110°C for 60 minutes. Samples were then diluted to a 25 mL volume with ASTM Type II Water. Samples were shaken and delivered for ICP analysis.

Sample Preparation: All samples were prepared in accordance with DCL SOP "IH-AN-021" and NIOSH method NMAM 7300 modified for hot block digestion.

Holding Times: The holding times were met for both sample preparation and analysis.

<u>Instrument Calibration</u>: Instrument calibration was performed in accordance with NIOSH method NMAM 7300.

Initial and Continuing Calibration Verification Analysis: Beryllium and cadmium recoveries in all Initial Calibration Verification (ICV) and Continuing Calibration Verification (CCV) samples are within the quality control limits of \pm 10%.

Initial and Continuing Calibration Blank Analysis: No beryllium results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Contract Required Detection Limits (CRDL) of 0.01 ug/sample. No cadmium results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Contract Required Detection Limits (CRDL) of 0.1 ug/sample.

Method Blank Analysis: No beryllium nr cadmium was found in any of the media blank samples above the Contract Required Detection Limit (CRDL).

Dilution(s): None

Laboratory Control Sample and Duplicate Analysis: One Laboratory Control Sample (LCS) and one Laboratory Control Sample Duplicate (LCSD) were prepared and analyzed with the sample batch.

DataChem Laboratories, Inc. 960 West Levoy Drive Salt Lake City, Utah 84123-2547 Phone: (801) 266-7700

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Case Narrative Page

The LCS results were within the control limits of ± 20%. The Relative Percent Differences (RPDs) between the LCSDs and the LCSDs were within the control limit of 20%.

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Replicate Analysis: One sample in this batch was replicated. The RPDs between the samples and the replicates were within the control limit of 20%. If the result of the sample or replicate is below the CRDL, replicate analysis is negligible.

Flagging Codes: None

Nonconformance/Corrective Action Report (NC/CAR): N/A

Sample Calculation: The final results are calculated by the following equation:

Final result for aqueous samples (μ g/sample) = (A) x (B) x (C)

Where:

A = Analyte concentration from instrument determination ($\mu g/L$)

B = Concentration factor from sample preparation

= <u>Final Volume of Digestate (L)</u>

Sample

C = Dilution performed at time of analysis

Example Calculation: $(1 \mu g/L) \times (0.025 L/sample) \times (1) = 0.025 \mu g/sample$

Miscellaneous Comments: None.





Report Page

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Subcontract Number: 0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number: DCHM

SAF#: RC-001 / R33400 J451

Payroll#: 72570

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Berylliun µg/sampl		Cadmiun µg/sampl	
J10JN9	05144451	17 Nov 2005	< 0.01	U	<0.1	U
J10JN8	05I44452	17 Nov 2005	< 0.01	U	<0.1	U.
J10JN7	05I44453	17 Nov 2005	< 0.01	U	< 0.1	U
J10JN6	05I44454	17 Nov 2005	< 0.01	U	< 0.1	U
Limit of Detection (LOD)			0	01	(0.1
R						

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U - Parameter not detected above LOD.

J - Parameter between LOD and RDL.





QC Summary Page

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Subcontract Number: 0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number: DCHM

SAF: RC-001 / R33400 J451

Payroll#: 72570

Batch ID: G05BJ011

QC Sample ID	QC Type	Analyte	Units	Result	Parent Result	Target	Percent Rec.	Relative Percent Diff.
BL-238337-1	MB	Beryllium	μg/sample	ND	NA	NA	NA	NA
BL-238337-1	MB	Cadmium	μg/sample	ND	NA	NA	NA	NA
QC-238337-1	LCS	Beryllium	μg/sample	11.0	NA	10.0	110.	NA
QC-238337-1	LCS	Cadmium	μg/sample	32.5	NA	30.0	108.	NA
QD-238337-1	LCSD	Beryllium	μg/sample	11.2	11.0	10.0	112.	2.36
QD-238337-1	LCSD	Cadmium	μg/sample	33.4	32.5	30.0	111.	2.50

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MB - Method Blank

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MSD - Matrix Spike Duplicate

LD - Laboratory Duplicate

NA - Not Applicable

ND - Parameter not detected above LOD

LCS, LCSD Percent Rec. = (Result / Target) * 100.0

MS, MSD Percent Rec. = ((Result – Parent) / Target) * 100.0

LCS, LCSD Relative Percent Diff. = ((|LCS - LCSD|) / ((LCS + LCSD)/2.0)) * 100.

MS, MSD Relative Percent Diff. = ((|MS - MSD|)/((MS + MSD)/2.0)) * 100.

LD Relative Percent Diff. = ((|Parent - LD|) / ((Parent + LD)/2.0)) * 100

Washington

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CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST Telephone No. 531-1229 Project Courdinator Data Turnaround Collector Соптралу Социст Joan H. Kessner william 5 Denise A. Pitts and Henry W. Ruby 24 hrs SPECIAL INSTRUCTIONS SAF No. Payroll #: Sampling Location RC-001 All relevant COAs must be provided: 334A 8106 Method of Shipment
Fed EX
Bill of Lading/Air Bill No. R 33400 J45 / ANALYSIS METHOD (SPECIFIC): Type of Sample Wipe Sample Media:
Ghost Yes No Shipped To: NIOSH 7300 854193375605 SOLT LONG CAN D
POSSIBLE SAMPLE HAZARDAREMARKS MATRIX - AIR - WIPE Preservation (i.e., cooling Special Handling and/or Storage wı No ۲ō required, etc.) No No No No х · OTHER NA SAMPLE ANALYSIS Beryllium Beryllium Achestos Lead YOLUME (L) or (adminin Airborne Airborne Wipc Airborne Mold SAMPLE NO. MATRIX SAMPLE DATE Comments X POCOL 11-14-05 W BUNKS J 10 Jn8 BUNILS 100 cm3 320,507 310306 11-14-05 100cm2 W-15-乀 Ň ò 3 -15 7 WCH-SH-202 (08/29/2005)

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COC Page

Enter on line below the first Sample Number from Page One:
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CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST							
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Tedex		Melayle Sodwald	ANNA I US				
Metal: M	DATE/TIME	Recordingent	DATETTME				
Prince V July		Respired Busseries	DATE/TIME				
Retemperated By Cherry	DATE/TRE	Received BuShweet.	DATE/TRE				
Betangurbal By Stores	DATE ITAE	Rosmal BySinesk	DATECTINE				
Retrappedent DySamps	DATE/TIME	Rezeral ByStreet	DATE/TRE				
Resuperand Substance	DATE / TRAE	Rezerol Bi-Savoi.	DATE / TIME				
LABORATORY RECEIVED BY SECTION RECEIVED BY	Title		DATE/TIME ////TIL//WS				
REVIEWED BY:	PRINT/SIGN NAME	DATE:	1 .				
WCH-SH-202 (08/29/2005)			Page 2 of 2				